

Abstract

1 A network accelerator storage caching system that may be
2 inserted at any point in a network, to provide a configurable,
3 scalable variety of cache management systems to improve
4 perceived response time. Depending on the configurations
5 selected, the system may manage data in a storage cache on the
6 basis of time-currency, page usage frequency, charging
7 considerations, pre-fetching algorithms, data-usage patterns,
8 store-through methods for updated pages, least recently used
9 method, B-tree algorithms, or indexing techniques including
10 named element ordering, among others. A preferred embodiment
11 may embed the configurable cache management in the storage
12 media, either as firmware in a storage controller or as
13 software executing; in a CPU in a storage controller. In a
14 preferred embodiment the system is designed to be scalable and
15 provide security measures for protecting data.